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Proc. Natl: Acad. Sci. U.S.A. 90, 5677-5681, 1993
A;Title: A receptor tyrosine kinase found in breast carcinoma A;Reference number: A48280; MUID:93296201
A;Accession: A48280
A;Status: preliminary; translated from GB/EMBL/DDBJ
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A; Residues: 1-913 < RES>
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C:Date: 31-May-1996 #sequence_revision 31-May-1996 #text_change 24-Sep-1999
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A;Cross-references: GB:L11315; NID:g403386; PIDN:AAA02866.1; PID:g403387 C;Superfamily: unassigned Ser/Thr or Tyr-specific protein kinases; discolC;Keywords: ATP C;Keywords: ATP F;30-185/Domain: discoldin I amino-terminal homology <DN1> F;608-912/Domain: protein kinase homology <KIN> F;616-624/Region: protein kinase ATP-binding motif Query Match
Best Local Similarity 99.1
Matches 911; Conservative 361 301 301 241 241 FRKSQELRVWPGYDYVGWSNHSFSSGYVEMEFEFDRLRAFQAMQVHCNNMHTLGARLPGG 300 181 181 121 121 61 61 EISFISDVVNNSSPALGGTFPPAPWWPPGPPPTNFSSLELEPRGQQPVAKAEGSPTAILI VECRFRRGPAMAWEGEPMRHNLGGNLGDPRARAVSVPLGGRVARFLQCRFLFAGPWLLFS ELYGCLWRDGLLSYTAPVGQTMYLSEAVYLNDSTYDGHTVGGLQYGGLGQLADGVVGLDD 240 HSRLESSDGDGAWCPAGSVFPKEEEYIQVDLQRLHLVALVGTQGRHAGGLGKEFSRSYRL 120 FRKSQELRVWPGYDYVGWSNHSFSSGYVEMEFEFDRLRAFQAMQVHCNNMHTLGARLPGG RYSRDGRRWMGWKDRWGQEVISGNEDPEGVVLKDLGPPMVARLVRFYPRADRVMSVCLRV 180 RYSRDGRRWMGWKDRWGQEVISGNEDPEGVYLKDLGPPMVARLVRFYPRADRVMSVCLRV 180 99.0%; ; Score 4881; D ; Pred. No. 5.8e 2; Mismatches .8e-214; nes 0; DB 2; Length 913; Indels 6; Gaps 360 300

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RESULT 2
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protein-tyrosine kinase (EC 2.7.1.112) trkE precursor - human
C;Specles; Homo sapiens (man)
C;Date: 10-Nov-1995 #sequence_revision 10-Nov-1995 #text_change 04-Feb-2000
C;Accession: A49508; 138358; 337402
R;DI Marco, E; Cutuli, N; Guerra, L.; Cancedda, R.; De Luca, M.
J. Biol. Chem. 268, 24290-24295, 1993
A;Title: Molecular cloning of trkE, a novel trk-related putative tyrosine kinase A;Reference number: A49508; MUID:94043265
A;Accession: A49508
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-876 colla-
A;Cross-references: EMBL:X74979; NID:9400462; PIDN:CAA52915.1; PID:9400463
C;Superfamily: unassigned Ser/Thr or Tyr-specific protein kinases; G;Superfamily: unassigned Ser/Thr or Tyr-specific protein kinase
C;Reywords: ATP; phosphotransferase; tyrosine-specific protein kinase
F;30-185/Domain: discoldin I amino-terminal homology <NIN>
F;571-875/Domain: protein kinase ATP-binding motif
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Lyrosine kinase receptor - rat
C.Species: Rattus norvegicus (Norway rat)
C.Species: Rattus norvegicus (Norway rat)
C.Accession: A53137
R.Sanchez, M.P.; Tapley, P.; Saini, S.S.; He, B.;
Proc. Natl. Acad. Sci. U.S.A. 91, 1819-1823, 1999
A.Title: Multiple tyrosine protein kinases in rat
A.;Reference number: A53137; MUID:94173920
A.;Accession: A53137
A.;Status: preliminary; translated from GB/EMBL/DE
A.;Residues: 1-910 <RES>
A.;Cross references: GB:L26525; NID:9432480; PIDN:
C;Genetics:
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kinase homology <KIN>
kinase ATP-binding motif
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Pred. No. 3.5e-200;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Molecule type: mRNA
A; Molecule type: mRNA
A; Residues: 1-855 < KRN>
A; Residues: 1-856 < KRN>
A; Cross-references: EMBL: X74764; NID: 9433337; PIDN: CAA52777.1; PID: 9433338
A; Cross-references: EMBL: X74764; NID: 9433337; PIDN: CAA52777.1; PID: 9433338
C; Superfamily: unassigned Ser/Thr or Tyr-specific protein kinases; Superfamily: unassigned Ser/Thr or Tyr-specific protein kinase
C; Reywords: ATP; phosphotransferase; tyrosine-specific protein kinase
F; 29-185/Domain: discoidin I amino-terminal homology < DNI>
F; 561-855/Domain: protein kinase homology < KIN>
F; 561-855/Domain: protein kinase ATP-binding motif
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                   LIGCLVAIIFILLAIIVIILWRQFWQKMLEKASRRMLDDEMTVSLSLPSDSSMFNNNRSS
                                                                                                                                                                                                   LIGCLVAIILLLLIIALMLWRLHWRRLLSKAERRVLEEELTVHLSVPGDTILINNR--P
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                                                                                 SPSEQGSNSTYDRIFPLRPDYQEP-
                                                                                                                                                                                                                                                 SEITFOSDAAMYNNSEAL ---- PTSP---
                                                                                                                                                                                                                                                                         SEISFISD-VVNNSSPALGGTFPPAPWWPPGPPPTNFSSLELEPRGQOPVAKAEGSPTAI
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                                                               APGEEESGCSGVVKPVQPSGP----EGVPHYAEADIVNLQGVTGG
                                                                                                                                                     -- PPYQEPRPRGNPPHSAPCVPNGSALLLSNPAYRLLLATYARP
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R;La1, C.; Lemke, G.
Oncogene 9, 877-883, 1994
A;Title: Structure and expression of the Tyro
A;Reference number: I48859; MUID:94151011
A;Accession: I48859
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    tyro 10 receptor kinase - mouse
C;Species: Mus musculus (house mouse)
C;Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change
C;Accession: I48859; S42796
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A; Residues: 1-819 < RES>
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A;Gene: tyro 10
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534-542/Region:
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 SLELEPRGQQPVAKAEGSPTAILIGCLVAIILLLLIIALMLWRLHWRRLLSKAERRVLE
                                HHRMASAIKCOYHFADTWMMFSEITFOSDAAMYNNS----GALPTSP------
                                                       GGRVARFLQCRFLFAGPWLLFSEISFISD--VVNNSSPALGGTFPPAPWWPPGPPPTNFS
                                                                                         NFTTMKVHCNNMFAKGVKIFKEVQCYF-RSEASEWEPTAVYFPLVLDDVNPSARFVTVPL
                                                                                                                                                 AVGYSMTEGLGQLTDGVSGLDDFTQTHEYHVWPGYDYVGWRNESATNGFIEIMFEFDRIR
                                                                                                                                                                    TVGGLQYGGLGQLADGVVGLDDFRKSQELRVWPGYDYVGWSNHSFSSGYVEMEFEFDRLR
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                                                                                                                       AFQAMQVHCNNMHTLGARLPGGVECRFRRGPAMAWEGEPMRHNLGGNLGDPRARAVSVPL
                                                                                                                                                                                                             ARFVRLIPVTDHSMNVCMRVELYGCVWLDGLVSYNAPAGQQFVLPGGSIIYLNDSVYDG-
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                                                                                                                                                                                                                                                                                                                                                                                              465;
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protein kinase ATP-binding motif
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                                                                                                                                                                                                                                                                                                                                                                                           116;
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Pred. No. 4.6e-99;
L6; Mismatches 208
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C;Date: 02-Aug-1996 #sequence_revision 02-Aug-1996 #text_change
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C; Superfamily:
                                                                                                                                                                                                                                                                                                                                                                                                  R;Sakuma, S.; Saya, H.; Ijichi, A.; Tofilon, P.J.
Radiat. Res. 143, 1-7, 1995
A;Title: Radiation induction of the receptor tyrosine
A;Reference number: I59442; MUID:95320273
                                                                                                                                                                                                                                                                                                                           A;Molecule type: mRNA
A;Residues: 1-220 <RES>
A;Cross references: GB:S77585;
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Local Similarity 98.6
hes 217; Conservative
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                                              PRGPGPPTPAWAKPTNTQAYSGDYMEPEKPGAPLLPPPPQNSVPHYAEADIVTLQGVTGG
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Pred. No. 4e-46;
D; Mismatches
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Hypothetical protein F11D5.3 - Caenorhabditis elegans C:Species: Caenorhabditis elegans C:Species: Caenorhabditis elegans C:Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #t C:Accession: T16031
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C; Superfamilio:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Cross-references: EMBL:U41532; NID:g1118032; PID:g1118035; PIDN:AAA83276.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Description: The sequence of C. elegans cosmid F1 A;Reference number: Z18449
A;Reference number: Z18449
A;Accession: T16031
A;Status: prellminary; translated; from GB/EMBL/DDBJA;Molecule type: DNA
A;Residues: 1-791 <NHA>
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Best Local
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                                          VRFYPRADRVMSVCLRVELYGCLWRDGLLSYTAPVGQTMYLSEAVYLNDSTYDGHTVGGL
                          RIGQGEFGEVDLCQLEN-
                                                                                                   NPL-----SSMVKYSDY
                                                                                                                            APLLPPPPQNSVPHYAEADIVTLQGVTGGNTYAVPALPPGAVGDGPPRVDFPRSRLRFKE
                                                                                                                                                                ---DNLQNALIEKMPMSPIISDYAEPDISVCSDVTA----NTPLLYGIDGPY-DTQKRS
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Pred. No. 5.5e-37;
0; Mismatches 310
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                        -VAVKKLH--
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                          receptor tyrosine kinase - rat (fragment)
()Species: Rattus sp. (rat)
()Date: 02-Aug-1996 #sequence_revision 02-Aug-1996 #text_change
()Accession: I59442
R;Sakuma, S.; Saya, H.; Ijichi, A.; Tofilon, P.J.
Radiat. Res. 143, 1-7, 1995
A;Title: Radiation induction of the receptor tyrosine kinase gen
A;Reference number: I59442; MUID:95320273
A;Accession: I59442
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Status: preliminary; translated from GB/EMBL/DDBJ
A; Molecule type: mRNA
A; Residues: 1-183 < RE
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A;Residues: 1-248 <KEL>
C;Superfamily: unassigned Ser/Thr or Tyr-specific protein kinases;
F;1-245/Domain: protein kinase homology (fragment) <KIN>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            receptor tyrosine kinase Xtrk - African clawed frog (fragment) C;Species: Xenopus laevis (African clawed frog) C;Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_chang.C;Accession: A44547
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                                                                                                                 IADFGMSRNLYAGDYYRIOGRAVLPIRWMAWECILMGKFTTASDVWSFGVTLWEILMLCK
                                                                                                                                 IADFGMSRNLYAGDYYRVQGRAVLPIRWMAWECILMGKFTTASDVWAFGVTLWEVLMLCR
                                                                                                                                                                                                 AAEGAPGDGQAAQGPTISYPMLLHVAAQIASGMRYLATLNFVHRDLATRNCLVGENFTIK
                                                                                                                                                                              EENG-----AHCLPAISYSSLLHVALQICSGMKYLSSLNFVHRDLASRNCLVGENLTIK
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Pred. No. 3.3e-37;
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A;Cross-references: (C;Genetics: C;Gene: Ptk-3S C;Superfamily: unass:
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F;16-138/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR3>
F;139-150/Domain: leucine-rich alpha-2-glycoprotein repeat homology *Status F;435-451/Domain: transmembrane *status predicted <TMN>
F;435-451/Domain: cytosolic *status predicted <TMN>
F;52-821/Domain: protein kinase homology <KIN>
F;535-813/Domain: protein kinase homology <KIN>
F;543-551/Region: protein kinase ATP-binding motif F;571/Region: protein kinase ATP-binding motif F;571/Active site: Lys *status predicted (Tyr) (covalent) (by autophosphorylation) *statis F;616/Binding site: Lys *status predicted F;706/Binding site: phosphate (Tyr) (covalent) *status predicted F;616/Binding site: phosphate (Tyr) *status predicted F;616/Binding site: phosphate (Tyr) *status predicted F;616/Binding site: phosphate (Tyr) *status p
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F;1-31/Domain: signal sequence #status predicted <SIG>
F;32-821/Product: brain-derived neurotrophic factor receptor #status predicted <EXT>
F;32-434/Domain: extracellular #status predicted <EXT>
F;67-91/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR1>
F;67-91/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR2:
F;92-115/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR:
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R:Klein, R: Parada, L.F.; Coulier, F.; Barbacid, M.
EMBO J. 8, 3701-3709, 1989

A:Title: trkB, a novel tyrosine protein kinase receptor
A:Reference number: S06943; MUID:90059970

A:Accession: S06943

A:Accession: S06943

A:Molecule type: mRNA
A:Residues: 1-821 <KLE>
A:Cross references: EMBL:X17647; NID:g55505; PIDN:CAA356

C:Genetics:
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S06943
brain-derived neurotrophic factor receptor precursor
N; Alternate names: receptor tyrosine kinase trkB
N; Contains: protein-tyrosine kinase (EC 2.7.1.112)
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C; Function:
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                                                                                     Score 648.5; DB 1
Pred. No. 1.8e-22;
2; Mismatches 188
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Pred. No. 8:2e-36;
0; Mismatches 3
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A;Title: trkB, a neural receptor protein-tyrosine A;Reference number: A39667; MUID:91094826
A;Accession: A39667
A;Status: preliminary
                                                                                                                           A;Cross-references: GB:M55291; NID:g207473; PIDN:AAA42279.1; PID:g207474 c;Function:
C;Function:
A;Description: regulation of nervous system development; receptor for brain-derived C;Superfamily: nerve growth factor receptor, high affinity; leucine-rich alpha-2-gly C;Keywords: alternative splicing; ATP; autophosphorylation; glycoprotein; growth fac
                                                                                                                                                                                                                                                                                                                                                                                                                                                 brain-derived neurotrophic factor receptor precursor N,Alternate names: receptor tyrosine kinase trkB.FL N,Contains: protein-tyrosine kinase (EC 2.7.1.112) C;Species: Rattus norvegicus (Norway rat) C;Date: 27-Nov-1991 #sequence_revision 27-Nov-1991 #t C;Accession: A39667 C;Accession: A39667
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A; Residues: 1-821 <MID>
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1-31/Domain: signal sequence #status predicted <SIG>;32-82/Droduct: brain-derived neurotrophic factor recep;32-434/Domain: extracellular #status predicted <EXT>;67-91/Domain: extracellular #status predicted <EXT>
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RESULT 12
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brain-derived neurotrophic factor receptor precursor N.Alternate names: receptor tyrosine kinase trkB
N;Contains: protein-tyrosine kinase (EC 2.7.1.112)
C;Species: Gallus gallus (chicken)
C;Date: 13-Jan-1995 #sequence_revision 13-Jan-1995 #1
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F;116-118/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR3>
F;139-150/Domain: leucine-rich alpha-2-glycoprotein repeat homology *status atypical <LF
F;435-451/Domain: transmembrane *status predicted <TMN>
F;452-821/Domain: cytosolic *status predicted <CYT>
F;452-821/Domain: protein kinase homology <KIN>
F;535-813/Domain: protein kinase homology <KIN>
F;533-551/Region: protein kinase ATP-binding motif
F;67,95,121,178,205,241,254,280,325,338,350,411/Binding site: carbohydrate (Asn) (covale F;571/Active site: Lys *status predicted
F;571/Active site: phosphate (Tyr) (covalent) (by autophosphorylation) *status predicted
F;816/Binding site: phosphate (Tyr) (covalent) *status predicted
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72; Mismatches 188;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Molecule type: mRNA
A; Residues: 1-818 <DEC>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A; Molecule type: mRNA
A; Residues: 1-818 <VI2>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C; Accession: S59939; S42175; R; Vinh, N.Q.; Erdmann, K.S.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local S
Matches 176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Status: preliminary
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                                                                                                                                                                                508
                                                                                                                                                                                                                   598
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                                                                                                                                                                                                                                                                                                                        414
                                                                                                                                                                                                                                                                                                                                                                                              360
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SGMRYLATLNFVHRDLATRNCLVGENFTIKIADFGMSRNLYAGDYYRVQGRAVLPIRWMA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .Q.; Erdmann, 1
383-384, 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
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F;33-432/Domain: extracellular status predicted CEMYS
F;66-90/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR1>
F;91-114/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR2>
F;115-137/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR3>
F;113-149/Domain: leucine-rich alpha-2-glycoprotein repeat homology *STR3>
F;138-149/Domain: transmembrane #status predicted <TMN>
F;433-449/Domain: cytosolic #status predicted <CYT>
F;450-818/Domain: cytosolic #status predicted <CYT>
F;450-818/Domain: protein kinase homology <KIN>
F;532-810/Domain: protein kinase Amp-binding motif
F;66,94,120,199,204,253,287,324,337,349,408/Binding site: carbohydrate (Asn) (covale F;668/Active site: Lys #status predicted
F;702/Binding site: phosphate (Tyr) (covalent) (by autophosphorylation) #status predicted
F;813/Binding site: phosphate (Tyr) (covalent) #status predicted
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A;Accession: S59939
A:Status
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Cross-references: EMBL:X77251; NID:g563881; PIDN:CAA54468.1; PID:g472934
A;Note: the nucleotide sequence was submitted to the EMBL Data Library, Januar
R;Dechant, G.; Biffo, S.; Okazawa, H.; Kolbeck, R.; Pottgiesser, J.; Barde, Y.
Development 119, 545-558, 1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     F;1-31/Domain: signal sequence #status predicted <SIG>
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                                                           DPLCMITDYMENGDLNQFLSAHQLEDKAAEGAPGDGQAAQG---PTISYPMLLHVAAQIA 757
                                                                                                                                                                                                       PLNYRKGHPLLVAVKILRPDATKNASFSLFSRNDFLKEVKIMSRLKDPNIIRLLGVCVQD
                                                                                                                                                                                                                                                                  ENPQYFGITNSQLKPDTFVQHIKRHNIVLKRELGEGAFGKVFLAECYNLCPEQD-----
                                                                                                                                                                                                                                                                                                                                           DGPPRVDFPRSRLR-----
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                                                                                                                                    -KILVAVKTLK-DASDNA-----RKDFHREAELLTNLQHEHIVKFYGVCVEG
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34.2%; Pre
~+1ve 71;
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Heumann,
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                                                                                                                                                                                                                                                                                                                                    -----FKEKLGEGOFGEVHLCE---VDSPQDLVSLDF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 648; DB 1;
Pred. No. 1.9e-22;
1; Mismatches 149
----GPDAVLMAEGNRPAELTQSQMLHIAQQIA
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Fils-152/Domain: cytosolic *status predicted <CYTN
Fils-162-YOMMAIN: cytosolic *status predicted <CYTN
Fils-162-YOMMAIN: protein kinase homology <KINN
Fils-162-YRegion: protein kinase ATP-binding motif
Fis-167-95,121,178,205,241,254,280,325,338,350,412/Binding site: carbohydrate (Asn)
Fils-16-YRegion: protein kinase ATP-binding motif
Fis-167-YRegion: protein kinase ATP-binding site: carbohydrate (Asn)
Fis-178-YRegion: protein kinase ATP-binding motif
Fis-178-YRegion: protein kinase ATP-binding m
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A56853
A56853
brain-derived neurotrophic factor receptor precursor - human
c; Species: Homo sapiens (man)
c; Species: Homo sapiens (man)
c; Date: 11-Aug-1995 #text_change 11-Jun-1999
c; Accession: A56853; I56557
Times of the precursor - human
c; Species: Homo sapiens (man)
c; Accession: A56853; I56557
Times of the precursor - human
brain-derived neurotrophic factor receptor types transported by the precursor - human
brain-derived neurotrophic factor receptor types transported by the precursor - human
brain-derived neurotrophic factor receptor types transported by the precursor - human
brain-derived neurotrophic factor receptor types
brain-derived neurotrophic factor receptor recepto
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A;Title: Cloning and chromosomal localization of the human TRK-B: A;Reference number: A56853; MUID:95309922
A;Accession: A56853
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Description: regulation of nervous system development; receptor for brain-derived neu C;Superfamily: nerve growth factor receptor, high affinity; leucine-rich alpha-2-glycop C;Keywords: alternative splicing; ATP; autophosphorylation; glycoprotein; growth factor
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C; Function:
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A;Cros8-references: GDB:127898; OMIM:600456
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A;Molecule type: mRNA
A;Residues: 1-822 <SHE>
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A;Title: Human trks: molecular cloning, tissue distribution, and expressing Reference number: I56557; MUID:95123473
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A; Residues: 1-822 <NAK>
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                                                               664
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                      NASFSLESRNDELKEVKIMSRLKDPNIIRLLGVCVQDDPLCMITDYMENGDLNQELSAHQ
                                                                                                                                             HNIVLKRELGEGAFGKVFLAECYNLCPEQD------KILVAVKTLK-DASD
                                                                                                                                                                                                                          RSRLRFKEKLGEGQFGEVHLCE---VDSPQDLVSLDFPLNVRKGHPLLVAVKILRPDATK 663
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                                                                                                                                                                                                                                                                                                                      13.1%; Score 645; DB 1;
46.5%; Pred. No. 2.6e-22;
tive 45; Mismatches 79;
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                                                                                                                                                                                                                                                                                                                      Gaps
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SRLKDPNIIRLLGVCVQDDPLCMITDYMENGDLNQFLSAHQLEDKAAEGAPG---
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                                                                                      -----YNLSPTK-DKMLVAVKALK-DPT-----LAARKDFQREAELL
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A;Map position: 15q24-15q25
C;Superfamily: nerve growth factor receptor, high affinity: leucine-rich alpha-2-glyc C;Keywords: alternative splicing; ATP; growth factor receptor F;79-103/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR1>F;104-127/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR2>F;128-150/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR3>F;151-162/Domain: leucine-rich alpha-2-glycoprotein repeat homology <LRR3>F;151-162/Domain: leucine-rich alpha-2-glycoprotein repeat homology *status atypical F;536-817/Domain: protein kinase homology <KIN>F;544-552/Region: protein kinase ATP-binding motif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                R:McGregor, L.M.; Baylin, S.B.; Griffin, C. Genomics 22, 267-272, 1994
A;Title: Molecular cloning of the cDNA for A;Reference number: A55178; MUID:95104834
A;Accession: A55178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          neurotrophin receptor trkC precursor - human C;Species: Homo sapiens (man) C;Decies: Homo sapiens (man) C;Date: 27-Jan-1995 #sequence_revision 27-Jan-1995 #text_change 18-Jun-1999 C;Accession: A55178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Molecule type: mRNA
A; Residues: 1-825 < MCG>
A; Cross-references: GB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Cross-references: GDB:127899;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 13.0%;
Best Local Similarity 32.5%;
Matches 174; Conservative 6
                                                                                                                                                                                                                                                                                                                                                    523 PPRGPGPPTPAWAKPTNTQAYSGDYME----PEKPGAPLL----PPPPQNSVPHYAEADIV
                                                                                                                                                                                                                                                                                                                                                                                                                     326 RGNPPPTLHWLHNGQPLRESKIIHVEYYQEGEISEGCLLFNKPTHYNNGNYTLI----AK
EVHLCEVDSPQDLVSLDFPLNVRKGHPLLVAVKILRPDATKNASFSLFSRNDFLKEVKIM
                                                                                                                                                                           GVSTAVGLAAFACVLLVVLFVMINKYGRRSKFGMKGPVAVISGEEDSASPLHHINHGITT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RGNPPHSAPCVPNG-----
                                                             PSSLDAGPDTVVIGMTRIPVIENPQYFRQGHNCHKPDTYVQHIKRRDIVLKRELGEGAFG
                                                                                                                    PGAVGDGP------PRVDFP-----
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GB:U05012; NID:g442389; PIDN:AAA75374.1;
                                                                                                                                                                                                                                                                                                   ----TANQTINGHFLKEPFPESTDNFILFDEVSPTPPITVTHKPEEDTF
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         67;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 641.5; DB 2
Pred. No. 3.8e-22;
7; Mismatches 131
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                                                                                                                    -----RSRLRFKEKLGEGQFG
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592

Qy 404 GQQ Db 407 SRD	Qy 366 Db 347 GCL	Qy 335 SVP Db 289 SVH	Query Match Best Local Matches 19	F;511-791/Dom F;519-527/Reg F;671-121,190, F;547/Active F;683/Binding F;794/Binding	F;92-115/Doma F;92-115/Doma F;116-138/Dom F;139-150/Dom F;425-441/Dom F;442-799/Dom	F;1-32/Domain F;33-799/Proc F;33-424/Doma	A; Description C; Superfamily C; Keywords: F ecific protei	A; Residues: 1 A; Cross-refex A; Note: seque A; Note: in Ge C; Comment: Th	R; Meakin, S; Proc. Natl. Proc. Natl. Proc. Natl. Proc. The A; Reference rap; A; Accession: A; Molecule ty	nerve growth N;Alternate; N;Contains: P C;Species: R C;Date: 31-De C;Accession:	RESULT 15 TVRTTB	Qy 857 EQ: Db 763 TE	Oy 797 LY. Db 704 VY.	738 644	593
QOPVAKAEGSPTAILIGCLVAIILLLLIIALMEM 	SDVVNNSSPALGGTFP- : RLNQPTHVNNGNYTLLAANPY	SVPLGGRVARFLQC : SVHLGKAVEQHHWCIPFSVD	Match 13.0%; Local Similarity 29.5%; nes 190; Conservative	ain: protein kina ion: protein kina 2004,255,264,320,3 site: Lys #status site: phosphate site: phosphate	in: leucine-rich a in: leucine-rich ain: leucine-rich ain: leucine-rich ain: leucine-rich ain: transmembrar ain: cytosolic #s	: signal sequence uct: nerve growth in: extracellular	<pre>: regulation of r : nerve growth fr TP; autophosphory n kinase</pre>	-799 <mea> -799 <mea> ences: GB:M85214 ence extracted free entry RATTI enbank entry RATTI</mea></mea>	R; Meakin, S.O.; Suter, U.; Drinkwater, C.C.; Proc. Natl. Acad. Sci. U.S.A. 89, 2374-2378, A; Title: The rat trk protooncogene product ex A; Reference number: A41981; MUID:92196121 A; Accession: A41981 A; Molecule type: mRNA	rowth factor receptor nate names: receptor tins: protein-tyrosine es: Rattus norvegicus 31-Dec-1993 #sequence sion. A41981		EQVIENAGEFFRDQGRQYYLS	AGDYYRVQGRAVLPIRW : : STDYYRVGGHTMLPIRW	QGP-TISYPMLLHVAAQ : : :	LQHEHIVKFYGVCGDGD
GQQPVAKAEGSPTAILIGCLVAIILLLLIIALMLWRLHWRRLLSKAERR- : : : : : : : : : :	SDVVNNSSPALGGTFP	SVPLGGRVARFLOCRELFAGPWLLFSEISFI	%; Score 640.5; DB %; Pred. No. 4e-22; 78; Mismatches 19	F:511-791/Domain: protein kinase homology <pre>KIN> F:519-527/Region: protein kinase ATP-binding motif F:67,121,190,204,255,264,320,325,341,361,404/Binding site: car F:547/Active site: Lys #status predicted F:683/Binding site: phosphate (Tyr) (covalent) (by autophospho F:794/Binding site: phosphate (Tyr) (covalent) #status predict</pre>	llpha-2-glycoprote. alpha-2-glycoprotinalpha-2-glycoprotinalpha-2-glycoprotinalpha-2-glycoprotestatus predicted	<pre>#status predicted factor receptor, factatus predicted</pre>	nervous system devo actor receptor, hid ylation; glycoproto	ues: 1-799 <mea> Teferences: GB:M85214; NID:g207481; PIDN:AAA42286.1; PID:g207482 sequence extracted from NCBI backbone (NCBIN:88433, NCBIP:88434) in Genbank entry RATTRKPREC, release 113.0, the source is designated it: The proto-oncogene trka is activated by gene fusion. The amino enclon:</mea>	Drinkwater, C.C., We A. 89, 2374-2378, 19 ncogene product exhi MUID:92196121	r precursor, high affin tyrosine kinase tika kinase (EC 2.7.1.112) g (Norway rat) re_revision 31-Dec-1993	-::	EQVIENAGEFFRDQGRQVYLSRPPACPQGLYELMLRCWSRESEQRPFFSQLHRFL	LYAGDYYRVQGRAVLFIRWAMECILMGKFTTASDVWAFGVTLWEVLMLCRAQPFGQLTD::: ::: :: :: :: :: :: :: :	AAQGP-TISYPMLLHVAAQIASGMRYLATLNFVHRDLATRNCLVGENFTIKIADFGMSRN 	TNLQHEHIVKFYGVCGDGDPLIMVFEYMKHGDLNKFLRAH-
LHWRRLLSKAERRV : : : { VLNKCGQRSKFGINRPAV	-PAPWWPPGPPPTNFSSLELEPR ; ; ; : NPFEFNPEDPIPVSFSPVDTNST	FSEISFI	1; Length 7 55; Indels	tiff nding site: carbohydrate (by autophosphorylation) #status predicted	in repeat homologe in repeat homologe in repeat homologe tein repeat homologe (TMN) ed (TMN)	<pre>d <sig> high-affinity #s d <ext></ext></sig></pre>	<pre>development; receptor high affinity; leuci rotein; growth factor</pre>	N:AAA42286.1; PII NCBIN:88433, NCBJ 3.0, the source j	. g	affinity - rat ikA 112) :-1993 #text_change		RPPACPQGLYELMLRCWSRESEQRPFFSQLHRFL :::: : :::: RPRVCPKEVYDVMLGCWQREPQQRLNIKETYKIL	VAFGVTLWEVLMLCRAQ -: : VSFGVILWEIFTYGK-Q	ATRNCLVGENFTIKIA : ATRNCLVGANLLVKIG	
V 454 INRPAV 458	LELEPR 403 :: VDTNST 406	NETMRH 346	99; 221; Gaps 22;	(Asn) #statu	t homology <lrr1> at homology <lrr2> aat homology <lrr3> eat homology #status atyp</lrr3></lrr2></lrr1>	#status predicted	for nerve ne-rich al receptor;	D:g207482 IP:88434) is designated as The amino end of	oter, E.M. characteristic of	02-Jun-2000		FL 911 810	PEGQLTD 856 : :: PWFQLSN 762	DFGMSRN 796 	-GPNAMILVDGQ 643
				(covalent) s predicte	atypical <lr< td=""><td><mat></mat></td><td>growth facto pha-2-glycopi phosphoprote</td><td>Rattus r</td><td>f the slc</td><td></td><td></td><td></td><td></td><td></td><td></td></lr<>	<mat></mat>	growth facto pha-2-glycopi phosphoprote	Rattus r	f the slc						

Ϋ́	455 LEEELTVHLSVPGDTILINNRPGPREPPPYQEPRPRGNPPHSAPCVPNGSALL 507
В	459 LAPEDGLAMSLHEMTLGGSSL
Qy	508 LSNPAYRLLLATYARPPRGPGPPTPAWAKPTNTQAYSGDYMEPEKPGAPLLPPPPQNSVP 567
рь	494 MENPOYDTCVH 506
Qy	568 HYAEADIVTLOGVTGGNTYAVPALPPGAVGDGPPRVDFPRSRLRFKEKLGEGQFGEVHLC 627
В	507 HIKRODII
γQ	628 EVDSPQDLVSLDFPLNVRKGHPLLVAVKILRPDATKNASFSLFSRNDFLKEVKIMSR 684
Db	531 ECYNLLNDQDKMLVAVKALK-ETSENARQDFHREAELLTM 569
Qy	685 LKDPNIRLLGVCVQDDPLCMITDYMENGDLNQFLSAHQLEDKAAEGAPGDGQAAQGPTI 744
рь	570 LOHOHIVREFGVCTEGGPLLMVFEYMRHGDLNRFLRSHGPDAKLLAGGEDVAPGP-L 625
Qy	745 SYPMLLHVAAQIASGMRYLATLNEVHRDLATRNCLYGENETIKIADEGMSRNLYAGDYYR 804
Д	626 GLGQLLAVASQVAAGMYYLASLHFVHRDLATRNCLVGQGLVVKIGDFGMSRDIYSTDYYR 685
Qy	805 VQGRAVLPIRWAMECILMGKFTTASDVWAFGVTLWEVLMLCRAQPFGQLTDEQVIENAG 864
B	686 VGGRTMLPIRWMPPESILYRKFSTESDVWSFGVVLWEIFTYGK-QPWYQLSNTEAIECI- 743
Qy	865 EFFRDGGRQVYLSRPPACPGGLYELMLRCWSRESEORPPFSQLH 908
망	744TQGRELERPRACPPDYYAIMRGCWQREPQQRLSMKDVH 781

Search completed: October 4, 2002, 07:41:35 Job time: 155 sec